



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 2314

<b>SERIAL NUMBER</b> 10/043,597	<b>FILING DATE</b> 01/09/2002 <b>RULE</b>	<b>CLASS</b> <del>711</del> 360	<b>GROUP ART UNIT</b> <del>2185</del> 2651	<b>ATTORNEY DOCKET NO.</b> Q02-1001-US1
<b>APPLICANTS</b> Dan Gunderson, Westminster, CO; Doug Gunther, Westminster, CO;  <b>** CONTINUING DATA *****</b> <i>None</i> <b>** FOREIGN APPLICATIONS *****</b> <i>None</i>  <b>IF REQUIRED, FOREIGN FILING LICENSE GRANTED</b> <b>** 02/13/2002</b>				
Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no 35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after met Verified and Acknowledged <i>Examiner's Signature</i> <i>Initials</i>		<b>STATE OR COUNTRY</b> CO	<b>SHEETS DRAWING</b> 4	<b>TOTAL CLAIMS</b> 36
<b>INDEPENDENT CLAIMS</b> 3				
<b>ADDRESS</b> DEBRA CHUN QUANTUM CORPORATION 501 SYCAMORE DRIVE MILPITAS ,CA 95035				
<b>TITLE</b> Enhanced read margining using dither enhanced write marginalization for mass data storage applications				
<b>FILING FEE RECEIVED</b> 1158	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees	
			<input type="checkbox"/> 1.16 Fees ( Filing )	
			<input type="checkbox"/> 1.17 Fees ( Processing Ext. of time )	
			<input type="checkbox"/> 1.18 Fees ( Issue )	
			<input type="checkbox"/> Other _____	
			<input type="checkbox"/> Credit	